

## SPONTANEOUS SYMMETRY POLE BREAKING

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### ABSTRACT

The beginning of history started 1960 where Nambu observed that the Natural interpolation of conserved  $\Delta S=0$  axial vector current in weak interaction is in the limiting case of world in which the mass of mason is set equal to zero. The theoretical study with new invention in SM of Higgs boson gauge invariant with extrapolation of vanished field, the weak interaction of gauge field will be generated an additional extrapolation in massive acquire masses in the spontaneous Symmetry Pole Breaking (SSPB) Model. In These I Discuss Paper Global, Local Gauge Symmetries And Symmetries Annihilation.

**KEYWORDS:** SSPB, Symmetries Annihilation, Extrapolation

### INTRODUCTION

In the Standard Model of Particle Physics [1-4] the Higgs mechanism is the tool of skeleton. It provided the theory with mass for the gauge boson of the week interaction and for the fermions. The electroweak theory presently verified experimental evidence. The Higgs mechanism is generally described as case of spontaneous symmetry breaking [5-10]. In the same standard model of Higgs-mechanism along with the d-wave function of super symmetry of generated masses with invariant into two mimic clone in SM of Higgs- boson gauge invariant with the extrapolate of vanished field. Electro magnate will be appear in these standard model of collider with photon atom collision with extra inter polarization into the weak active field with a generative acquire mass of asymmetry polarity broken into the two global matrix transformation in account of inter phase of e diffusivity with coulombs interaction two symmetry axial flow current into the transverse interchange interpolation symmetry of four quantum invariant coordinate with change masses with phase transformation into the coupling with  $180^\circ$  rotation into the weak interaction of gauge field will be generated a additional extrapolation in massive acquire masses.

The notion of spontaneous symmetry pole breaking (SSPB) will be at the basis of this present paper. Explicit symmetry breaking is caused by an external force that actively breaks the symmetry. It appears as a symmetry breaking in the Lie group accrues mass into the mass less Goldstone –Boson particles into the Lagrangian invariant. The phenomena of spontaneous symmetry breaking however dose not required such an external force, this is where the terms ‘spontaneous’ comes from. The spontaneous symmetry pole breaking is a phenomenon where a symmetry in the basic law of physics with it two poles are to be broken.

For example consider a Ferro magnetic rod with its standard moment an interpolation generated into the pieces by repeated increasing pressure with its invariant a dynamic moment without an external force the perturbation the gauge in the annihilation comes out into the wave pulse into the extrapolation of its statically geometry gauge dimension the chromo dynamic with the molecular exhibition of pulse d –wave with the cooling tower inbuilt interpolate to its space vacuue flexibly with squeeze current of the inbuilt phase of condensed boson into the LT (lower temperature) into the CT ( critical

temperature) will be broken into two pieces but with two additional extrapolation pole of gauge boson into the condensed matter of cooling into the ferromagnetic pieces. The equation of motion and the Lagrangian-Equation 1[11] then still obey the spontaneously pole braking symmetry.

The symmetry considered in this example is the rotational symmetry of a rod around its axis as in figure 1(a). The symmetry can be broken by as in figure 1(a). The symmetry can be broken by applying an external force. To one end of the rod and the rod will bend and loss its rotational symmetry as in figure 1(b)

The case of spontaneous symmetry pole breaking is encountered into the a Ferro magnetic piece of rod is into the a Ferro magnetic piece of rod is with its standard moment an interpolate generate into the pieces by repeated increasing pressure with invariant dynamic moment and the annihilated gauge dynamic moment generated into the fibber frame of the Ferro magnetic pieces into the d-wave function into LT to CT condition fig-1(c) shows that the condensed boson will be broken into two piece of with the generating two dynamic pole into the space vacuue spontaneously broken the pole into the extrapolation. It is worth nothing two properties of the spontaneous pole breaking.

The first is that the invariant obey the space vacuue into the n -multidirectional with arbitrary rotational polar dynamic annihilation occupied into the ground state. The second consideration with the dynamic annihilation with different distinct pole generated in vacuum state with the expectation ion polar moment will give additional pair polarity in the rotational symmetry.



Figure 1: (a)

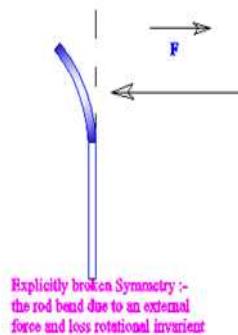
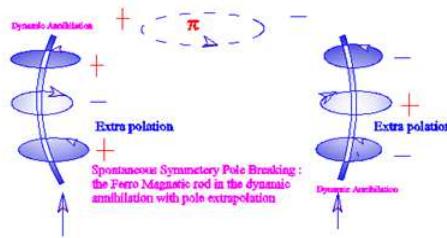


Figure 1(b)

**Figure 1: (c)**

### Global, Local Gauge Symmetries and Symmetries Annihilation

Global symmetries have a global parameter where as considering the parameter of local transformation in space time dependent Local symmetries are therefore connected with indeterminism, but can be part of a deterministic theory if they are gauge symmetries, i.e. if they connected physical equivalent states to extract physics (like the equation of motion) from a theory with a local gauge symmetry a gauge needs to be fixed.

The symmetry in gauge invariant into the two transformations such as asymmetric transformation into the local transformation with rotational transfer into the vacuuue in the transformation where the phase invariant is a couple pair of rotation with transfer function of d -wave with the Yang-Mill field  $A_{a^+ \mu^+}$  ,  $A_{a^{++} \mu^{++}}$  as such the transfer function of the invariant Lagrangian is under the transformation[11](Equation-6) where the pair have to be a longer mass less and other rotation with the duel complex scalar field interact with itself with continuous space of chronological squared sequence with the synchronized field of invariant and transform into a annihilation of transfer function into the symmetries with the pole pair analog with the dimension of  $\mu^+ , \mu^{++} \rightarrow (+ +) \cup \Pi(--)$  into the field fermion have to be a local gauge covalence with two conjugate pair.

### CONCLUSIONS

Theoretically it has been discuss the SSPB model along with Ferro magnetic bar and its extrapolation effect under dynamic annihilation.

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